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Truby-1
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NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Bianco Formation Mesaverde County Rio Arriba
Initial x Annual _____ Special _____ Date of Test April 4, 1958
Company Northwest Production Corp. Lease ugu Well No. 11-15
Unit G Sec. 15 Twp. 26N Rge. 3W Purchaser Not connected
Casing 3 1/2 Wt. 14.0 I.D. _____ Set at _____ Perf. _____ To _____
15.5 5993 5840 5900
Tubing 2-3/8 Wt. 4.7 I.D. _____ Set at _____ Perf. _____ To _____
5939 5936 5939
Gas Pay: From 5840 To 5900 L 5936 xG Est .670 -GL 3977 Bar.Press. _____
Producing Thru: Casing _____ Tubing x Type Well Dual G-G
Single-Bradenhead G. G. of G.O. Dual
Date of Completion: 12-17-57 Packer Yes - 5800' Reservoir Temp. _____

OBSERVED DATA

Tested Through (Prover) (Choke) (Meter)
//////// //////// ////////

Type Taps _____

No.	Flow Data					Tubing Data		Casing Data		Duration of Flow Hr.
	(Prover) (Line) Size	(Choke) (Orifice) <u>1 1/8</u>	Press. psig	Diff. h _w	Temp. °F.	Press. psig	Temp. °F.	Press. psig	Temp. °F.	
SI										
1.						835		785		SI
2.										
3.										
4.		1/8				225	45	785		3 hr
5.										

FLOW CALCULATIONS

No.	Coefficient (24-Hour)	$\sqrt{h_{wpf}}$	Pressure psia	Flow Temp. Factor F _t	Gravity Factor F _g	Compress. Factor F _{pv}	Rate of Flow Q-MCFPD @ 15.025 psia
1.							
2.							
3.							
4.	.3393		237	1.0147	.9463	1.027	79
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio _____ cf/bbl.
Gravity of Liquid Hydrocarbons _____ deg.
F_c 9.402 (1-e^{-s}) 0.251

Specific Gravity Separator Gas _____
Specific Gravity Flowing Fluid _____
P_c 847 P_c 717.4

No.	P _w P _t (psia)	P _t ²	F _c Q	(F _c Q) ²	(F _c Q) ² (1-e ^{-s})	P _w ²	P _c ² -P _w ²	Cal. P _w	P _w /P _c
1.									
2.									
3.									
4.	237	56.2	.743	.552	139	195.2	522.2		1.374
5.									

Absolute Potential: _____ MCFPD; n _____
COMPANY 100 .75/1.269

ADDRESS Northwest Production Corporation
AGENT and TITLE 204 North Orchard, Farmington, New Mexico
WITNESSED C. E. Werner, Well Tester
COMPANY _____

REMARKS



INSTRUCTIONS

This form is to be used for reporting multi-point back pressure tests on gas wells in the State, except those on which special orders are applicable. Three copies of this form and the back pressure curve shall be filed with the Commission at Box 871, Santa Fe.

The log log paper used for plotting the back pressure curve shall be of at least three inch cycles.

NOMENCLATURE

Q = Actual rate of flow at end of flow period at W. H. working pressure (P_w).
MCF/da. @ 15.025 psia and 60° F.

P_c = 72 hour wellhead shut-in casing (or tubing) pressure whichever is greater.
psia

P_w = Static wellhead working pressure as determined at the end of flow period.
(Casing if flowing thru tubing, tubing if flowing thru casing.) psia

P_t = Flowing wellhead pressure (tubing if flowing through tubing, casing if flowing through casing.) psia

P_f = Meter pressure, psia.

h_w = Differential meter pressure, inches water.

F_g = Gravity correction factor.

F_t = Flowing temperature correction factor.

F_{pv} = Supercompressability factor.

n = Slope of back pressure curve.

Note: If P_w cannot be taken because of manner of completion or condition of well, then P_w must be calculated by adding the pressure drop due to friction within the flow string to P_t .

DRILLING DEPARTMENT

COMPANY Northwest Production Corp.

LEASE "E" WELL NO. 11-15

DATE OF TEST 4-4-58

SHUT IN PRESSURE (PSIG): TUBING MV 835 CASING PC 785 S.I. PERIOD 59 DAYS

SIZE BLOW NIPPLE _____

FLOW THROUGH 1/8" CK WORKING PRESSURES FROM Casing

TIME		TUBING	Q (MCFD)	WELLHEAD WORKING	TEMP
HOURS	MINUTES	PRESSURE	15.025 PSIA & 60°F	PRESSURE (PSIG)	
	<u>30</u>	<u>377</u>		<u>785</u>	<u>42</u>
<u>1</u>	<u>00</u>	<u>249</u>		<u>785</u>	<u>43</u>
<u>1</u>	<u>30</u>	<u>243</u>		<u>785</u>	<u>46</u>
<u>2</u>	<u>00</u>	<u>238</u>		<u>785</u>	<u>45</u>
<u>2</u>	<u>30</u>	<u>231</u>		<u>785</u>	<u>45</u>
<u>3</u>	<u>00</u>	<u>225</u>		<u>785</u>	<u>45</u>

START AT 1:00 PM END TEST AT 4:00 PM

REMARKS: Started making spray of distillate after 45 mins and continued
throughout test.

TESTED BY : C. E. Werner

WITNESS: _____

OIL CONSERVATION COMMISSION

AZTEC DISTRICT OFFICE

Case No. 3

RESOLUTION

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